Progress on the Implementation of IC 16-38-4-7 (Birth Problems Registry)

As amended in First Regular Session

112th General Assembly (2001)

Reporting Period: July 2006-June 2007

Submitted by:
Nancy B. Meade, RD, MPH
Indiana Birth Defects and Problems Registry
(IBDPR) Project Manager
And
Ruwanthi Silva, MS
IBDPR Coordinator
Indiana State Department of Health

Table of Contents

History/	Overv:	iew.	page 3
Case As	scertain	nmen	ntpage 4
Applica	tion De	evelo	ppmentpage 5
Program	n Deve	lopm	nentpage 5
Nationa	1 Meeti	ings	Attendedpage 6
Statute 1	-		page 6
			er and types of birth problems occurring iana by County (and other data)page 6
			Appendix, Table 8page 21 mount and use of the birth problems
	3) P1	ropos	ry by researcherspage 8 sals for the prevention of birth problems
	O	ccurr	ing in Indianapage 9
Append			
	Table	2:	Number of Children Reported to IBDPR by Birth Yearpage 10 Number of Children Reported to IBDPR with only One Reportable Condition
			by Birth Yearpage 11
	Table		Number of Children Reported To IBDPR with More Than One Reportable
			Condition and Unduplicated by Category
	Table	4A:	by Birth Yearpage 12 Sources of Case Ascertainment Data for Targeted Conditions of 2003-2004 Births to Indiana Womenpage 13
	Table	4B:	Sources of Case Ascertainment Data for Reportable
	Table		Conditions of 2003-2004 Births to Indiana Womenpage 14 Fargeted Conditions Reported to IBDPR via Hospital
		-	Discharge Data for Children born in 2003-2004 which are Confirmed or Determined as Highly Probable by
	Table	6:	Medical Chart audits or Physician Reportspage 15 Confirmed and Probable Counts and Rates by Race of the Targeted Conditions for 2003-2004 Births to
			Indiana Womenpage 16
	Table		Confirmed and Probable Counts and Rates of Trisomy by Maternal Age for 2003-2004 Births to Indiana Womenpage 19
	Table		Confirmed and Probable Counts and Rates of the Targeted Conditions for 2003-2004 Births to Indiana Women by
			Countypage 20

Progress on the Implementation of IC 16-38-4-7 (Birth Problems Registry) as amended in First Regular Session 112th General Assembly (2001) Reporting Period: July 2006-June 2007

The Indiana Birth Defects and Problems Registry (IBDPR) is a population-based surveillance system designed to aid in the prevention of birth defects and childhood developmental disabilities and to enhance the quality of life of affected Indiana residents.

Birth defects are conditions present at birth that affect the structure or function of an infant's body. They can cause physical, mental, and medical problems. Some birth defects such as cleft lip or club foot are easy to observe, but others such as heart defects are found using special tests such as echocardiograms. About one out of 33 babies is born with a major birth defect in the United States. Birth defects are the leading cause of death in infants. The lifetime cost of caring for children born with birth defects each year is estimated to be about \$8 billion (from a 1995 California study based on 1992 dollars). Some of these defects are entirely preventable, while others could be identified early and treated or managed in order to improve the quality of life of affected infants and their families. (See web site: www.in.gov/isdh/programs/ibdpr/index.htm.)

The 1986 Indiana General Assembly enacted a law (IC 16-4-10-6) to establish the Birth Problems Registry by January 1, 1987. In 2001, the Indiana Birth Problems Registry law (IC 16-38-4-7; 410 IAC 21-3) was amended to allow additional data sources to be used to improve the quality of the data. Data from the Indiana Birth Defects and Problems Registry will be used to detect trends in birth defects and suggest areas for further study; to identify epidemiological factors associated with birth defects; to address community concerns about the environmental effects on birth outcomes; to evaluate education, screening, and prevention programs; and to establish efficient referral systems that provide special services for the children with identified birth defects and their families.

The Indiana State Department of Health (ISHD) staff obtained a three-year CDC Cooperative Agreement, a four-year Health Resource Service Administration (HRSA) Genetics Implementation Grant, a HRSA State Systems Development Initiative (SSDI), and HRSA's Title V Block Grant to fund the development of the enhanced IBDPR both programmatically and technically.

To improve the follow up services of the Universal Hearing Screening Program of ISDH, the IBDPR rule was amended to include hearing loss as a reportable condition and to require audiologists to report hearing loss diagnoses to the ISDH. The rule amendment process was completed in September 2006 and the final rule was published in the Indiana Registry October 2006. Hospitals, physicians, psychologists and audiologists were informed about the expansion of the IBDPR rule by mail. Since in January 2007, all data providers are required to report hearing loss data.

Case Ascertainment

The Indiana Birth Defects and Problems Registry (IBDPR) is considered a "passive" system because initial case ascertainment is through the electronic submission of hospital discharge data (HDD) with defined ICD-9-CM codes that identify birth defects and problems. However, in the early stages of program development, it was determined that up to 25 percent of the HDD were invalid. Therefore, the program protocol initially includes completing medical chart audits on the 44 CDC-targeted conditions reported to ISDH to ensure the data submitted to CDC is as valid as possible and to ensure information sent to families is appropriate. By the end of May 2007, IBDPR staff completed the chart audits and confirmations for 2003 and 2004 births. When confirmed data for three years are available, the need to continue chart auditing will be evaluated for each CDC-targeted condition.

Hospital Reporting:

All 111 reporting hospitals are now submitting their monthly discharge data using Indiana Health Data Center web portal. By the end of July 2007, 53 hospitals have reported through June 2007, 44 hospitals have reported through May 2007 and 13 hospitals through March 2007. One hospital has only reported through December 2006. (Staff is currently working with this hospital to ensure timely submissions.) Hospitals are required to report birth defects data to IBDPR when they complete coding hospital discharge records for each month. The changes in data collection and recording systems and lack of resources such as medical records or information technology staff have been presented as reasons for the delays or irregular data reporting.

Physician Reporting:

The IBDPR uses physician reporting to identify children with birth defects that may not be diagnosable at birth and may, therefore, be diagnosed in a doctor's office rather than a hospital. The IBDPR staff considers a physician's submission as confirmation of a diagnosis. No auditing is done on charts in a physician's office. If the IBDPR has received duplicate information from a hospital and no chart audit has been completed, the physician's report will be confirmation of that birth defect and no chart audit will be done at the hospital. IBDPR staff expects that reports of children with certain conditions (i.e. autism and fetal alcohol spectrum disorder) will be ascertained primarily from physician reporting.

In February 2007, IBDPR mailed information packets to statewide physicians and psychologists to acknowledge birth defects awareness month and to inform them about the IBDPR rule expansion. These packets included a letter from the Health Commissioner, new reportable conditions list, revised reporting form to increase the efficiency of reporting and reviewing, an IBDPR fact sheet and an informative flyer about birth defects reporting. The physician's report form is also available on the IBDPR website (www.in.gov/isdh/programs/ibdpr/birth_defects.pdf).

A total of 951 submissions have been reported by 48 physicians and four psychologists since the beginning of the physician reporting system in January 2004 through July 2007. No

significant increase in physician reporting was observed as a result of the February 2007 mailings. Five new practitioners have reported after March 15, 2007. Seven practitioners report regularly.

Application Development

The IBDPR data mart as well as the Operational Data Store (ODS) continue to be enhanced. In the spring of 2007, newborn screening data from the Universal Hearing Screening Program were integrated into the Operational Data Store (ODS). IBDPR is now working to incorporate audiologist reports in the hearing screening data mart. Integrated data from different data sources increase the accuracy of child health profiles and the efficiency of medical record audits.

In early 2007 the IBDPR began using the mother's county of residence at the time of birth for each birth defect case. Last year, data analysis was based on county of birth instead of mother's county of residence. IBDPR submitted annual data sets of 2003 and 2004 births (Tables 6 and 7) in June 2007, which will be published in Birth Defects Research Part A: Clinical and Molecular Teratology in December 2007. This is required by the Centers for Disease Control and Prevention (CDC) Cooperative Agreement Grant from 2002-2005 to set up a birth defects data collection system separate from vital record information,.

IBDPR is now developing an electronic application which will allow staff members to identify children with certain confirmed birth defects and send educational and resource information packets to their parents or guardians. This application will be ready in the fall of 2007.

Program Development

The goals of the program are to improve the quality of the data available on birth defects in Indiana and to provide information to physicians and families related to understanding the birth defect of their child and resources available to them. The ISDH has promulgated rules regarding the case ascertainment (who and what needs to be reported to ISDH) with each legislative change.

In September 2006, IBDPR rule was amended (IAC 21-3-7 and IAC 21-3-9) to include hearing loss as a reportable condition and to mandate statewide audiologists to report hearing loss diagnoses to the ISDH. The final rule was published in Indiana Registry – October 2006. Also a more efficient and user friendly physician reporting form was made available with the rule amendment. Hospitals, physicians, psychologists and audiologists were informed about the expansion of the IBDPR rule by mail. All data providers are required to report hearing loss data since in January 2007. Updated rule changes can be found on the IBDPR website.

When the electronic application to identify children with certain confirmed birth defects is available, IBDPR will send educational and resource information packets to the parents or

guardians of the children who are born in 2004 and later. The effectiveness of these mailings will be evaluated once the program is fully functioning.

National Meetings Attended

In November 2006, IBDPR and ODS hosted a Connections site visit meeting in Indianapolis funded by the Public Health Informatics Institute. This conference provided strategies, best practices, and lessons learned from Indiana's integrated child health information system and ODS. Connections is a program of the Public Health Informatics Institute and is supported by the Genetic Services Branch of the Health Resources and Services Administration's Maternal and Child Health Bureau (HRSA/MCHB).

In January 2007, four staff members attended the 10th annual meeting of National Birth Defects Prevention Network (NBDPN), on "Advances and Opportunities for Birth Defects Surveillance, Research and Prevention" in San Antonio, Texas. Attendance to the conference was recommended by the Centers for Disease Control and Prevention (CDC) and was funded by HRSA Genetics Implementation Grant. It was designed to develop relationships among federal, state and professional organizations that are working towards common goals. At this conference IBDPR presented a poster titled "Development of an Electronic Data Collection and Integration System to Improve the Completeness and Accuracy of Birth Defects" which described its data sources, person-centric database (ODS) and data marts to utilize data for research and education purposes. The conference also provided an opportunity to have discussions about successful approaches to reduce and prevent birth defects.

Statute Requisites

The development of reports has become more detailed as more data have been collected. More information is added daily on children from birth to three or five years of age. Therefore, the same report compiled on different dates for the same time period may have different values. The data for the following reports were compiled on 10/22/2007. Because the numbers of birth defects are so small, the data will be grouped in multiple years, as is done for the national publication. The report reflects the first two years of data available. The reports will continue to become more refined as the program matures.

1) The numbers and types of birth problems occurring in Indiana by county: The data presented in Tables 1- 3 were obtained from the data files submitted to IBDPR by statewide hospitals as required by the Birth Problems Registry law (IC 16-38-4-7; 410 IAC 21-3) and through physician reporting. The hospitals extract these data from their hospital discharge (UB-92) records.

IBDPR started collecting birth defects data separate from vital records data in the fall of 2002. Therefore, for this report we have analyzed these data for the children born in 2003 and 2004 according to the conditions or categories listed in IBDPR's Reportable Conditions List (Table 1). According to Vital Records data in ODS there are 174,208 live births for 2003 and 2004.

To verify the accuracy of hospital discharge data, IBDPR targeted 44 specific birth defects of the reported conditions to be audited by ISDH staff/contractors. These 44 defects are recommended by the National Birth Defects Prevention Network and are published for most of the states nationwide in Birth Defects Research Part A: Clinical and Molecular Teratology, annually. ISDH chart auditors visit the hospitals and review the medical records of children who have been reported to IBDPR with one or more targeted conditions to assess them as confirmed or probable (Table 5).

About 56 percent of the children reported as having birth defects through hospital discharge data were determined to have confirmed or highly probable (chart audit does not provide the conclusive confirmation evidence, but the genetic specialist concludes that it is highly probable that it is a diagnosis) conditions based on medical chart audits for 2003-2004 births. Of the targeted birth defects reported and confirmed, about 82.5 percent are to non-Hispanic white children, 8.9 percent to non-Hispanic black children, 6 percent to Hispanic children, <1 percent to Asian children and American Indian, and 1.7 percent to children of other races/ethnicities. The data reflects that 2.9% of the births in Indiana were confirmed with a targeted condition. The national estimate for birth defects is 3-5%.

The following explains the attached tables:

Table 1 shows the number of children reported by the hospitals through discharge ICD-9-CM codes for each reportable condition category. These are children who are counted only once for each condition category reported. However, many children with birth defects or problems have more than one defect, so one child may be reflected in more than one condition category. These numbers do not reflect confirmation of the defect, merely hospital reporting. It is important to note that in the Autism and Fetal Alcohol Syndrome (FAS) categories, the number of cases reported by the hospital has decreased in the more recent birth years. This supports the need for the IBDPR to follow children from birth to 3 years of age (or 5 years of age for Autism and FAS) to identify birth conditions that may not manifest themselves for several years beyond birth. The data also reinforce the importance of physician reporting of birth defects or conditions found as the child ages.

Note also that the reporting of "congenital anomalies of integument" (or skin) has increase considerably since reporting started in 2003. This is not a targeted condition, so no confirmations of these conditions have been attempted. However, it might be something the program staff would want to study in the future.

Table 2 shows the number of children reported with only one reportable condition and Table 3 shows the number of children reported with more than one reportable condition. The count is unduplicated by condition category. These tables are subsets of Table 1 and, again, do not reflect whether there is a confirmed diagnosis that supports the discharge code. More children are reported with more than one condition or anomaly than just one.

Tables 4A and 4B reflect the sources of case ascertainment for the targeted conditions and non-targeted reportable conditions. It is important to note that of the targeted conditions, the following have a high percentage of cases that are reported by physician only:

anotia/microtia, 30 percent; autism, 13 percent; diaphragmatic hernia, 5 percent; fetus or newborn affected by maternal alcohol use (FASD), 35 percent; microcephalus, 5 percent; and reduction deformity, upper limbs 13 percent. Of the reportable conditions not included in the target group, 28 percent of the Autism spectrum disorders and 6 percent of chromosomal anomalies are reported by physicians only. Physician reporting is key to having reliable rates for many conditions mentioned.

Table 5 reflects the targeted conditions by categories reported to the IBDPR from hospital discharge date for children born in 2003-2004 and where the medical chart audit found the condition to be confirmed or probable by chart audit. The percentage of confirmed targeted conditions reflects the validity of the hospital discharge reporting.

In Table 5, with a second year of data being incorporated, physician reports available to confirm diagnoses, and a refinement in the reports, the overall percentage of confirmed has dropped from 77 percent to 56 percent. Chromosomal anomalies (85 percent valid) and gastrointestinal anomalies (81.2 percent valid) have the greatest accuracy. Reports through hospital discharge data of "Fetal Alcohol Syndrome" were able to be substantiated by chart audit and physician reports in 69.4 percent (versus 37.5 percent in year one data) of the children. This improvement is probably related to having a second year to diagnose babies born in 2003 plus a second year of births. Additional refinement of the data in Table 5 is needed. Once we have three years of data to review, staff will be able to identify the specific conditions that are accurately reported through hospital discharge.

Table 6 provides the counts and rates per 10,000 births by race of confirmed and probable targeted birth defect conditions for Indiana children born in 2003-2004 who have been reported to IBDPR. (A "probable" condition is one that has been audited where the criteria for confirmation was not complete but was adequate enough to determine the condition to be likely. A "probable" condition is counted as confirmed for counts and rates.) Overall rate of 284 per 10,000 births is very close to national estimates.

Table 7 indicates Trisomy (the presence of three, rather than the normal two, copies of a chromosome, e.g., children born with a third copy of chromosome 21 have Down Syndrome) counts and rates of infants born in 2003-2004 by maternal age.

Table 8 shows the counts and rates per 1,000 births of confirmed and probable targeted birth defect conditions for Indiana children born in 2003-2004 for each county of Indiana. If the count is less than five for a specific targeted condition, the condition is not listed but the count is included in the total defect count for that county. If the total number of defects in a county is less than five, are suppressed in order to maintain confidentiality.

2) The amount of use of the birth problems registry by researchers:

Annual Indiana data of the 2003 births (Table 6) were submitted to National Birth Defects Prevention Network (NBDPN) in June 2007 which will be published in Birth Defects Research Part A: Clinical and Molecular Teratology in December 2007. IBDPR did not receive any other data requests from researches within this fiscal year. However, an epidemiology masters degree intern will be using the data early in the next fiscal year to

study gastroschisis in Indiana. IBDPR data will be most useful for research and analysis when several years of data are available.

3) Proposals for the prevention of birth problems occurring in Indiana:

The Folic Acid Campaign marketing activities continued with funding from Title V through May 2006. The purpose of the Campaign is to increase awareness and stimulate behavior change with the target audience (women of child bearing age) through educating and marketing a new theme, "Take It, Seriously." Distribution of materials will continue. Activities for FY 2006 include:

- Distributed Folic Acid Friendly Office Kits (1st quarter 2005) to all WIC Clinics (approximately 160) statewide.
- Provided displays and educational presentations to bridal trade shows and educational conferences.
- Designed middle and high school educational curriculum, now available on the website.
- The "Take It, Seriously" message was marketed in college newspapers, at local sports events, on the radio, and on bookmarks distributed to libraries.
- A follow-up consumer phone survey was completed to determine any increase in folic acid awareness and/or a change in behavior that has occurred in the last year. Of those surveyed in 2006, everyone knew something about folic acid (a 25 percent improvement). All knowledge levels increased, but there was only a 1 percent increase in those who said they knew a lot about folic acid. However, when asked about when folic acid should be taken, 55 percent (up from 10 percent) indicated that it should be take before pregnancy. This is a good outcome.
- A Folic Acid/In Shape Indiana bookmark was developed and printed for use in clinics and health fairs.
- Website is being maintained and up-dated: (www.in.gov/isdh/programs/FolicAcid)

The Fetal Alcohol Spectrum Disorder (FASD) Task Force met regularly throughout the year to facilitate the development of the needs assessment and strategic plan. The goal of this effort is that "No baby shall be born in Indiana with Fetal Alcohol Spectrum Disorder." The following activities were completed in the last year:

- The needs assessment and strategic plan for addressing Fetal Alcohol Spectrum Disorders (FASD) was completed in June 2006. The strategic plan will be finalized and put on the Web site in the near future.
- The goals of a prevention campaign were determined to be:
 - 1. To increase awareness of the consequences of alcohol consumption by pregnant women through a direct marketing campaign throughout the state.
 - 2. To educate Indiana communities about FASD and how to prevent it.
 - 3. To support the efforts of up to four local communities to plan and implement the FASD Prevention Campaign.
 - 4. To replicate FASD Prevention Campaigns in additional communities.
 - 5. To evaluate the FASD Prevention Campaign throughout the state.
- As part of the needs assessment and strategic plan development, surveys were developed, distributed and compiled for women and health professionals, and community dialogues were held to gain insights about the plan.
- Funding opportunities to implement the plan are being evaluated.

APPENDICES

Table 1: Number of Children* Reported** to IBDPR by Birth Year

Condition Name/Category	Table 1: Number of Children*	ICD-9-CM		Jirtir Tear		
Adenoma of lung bronchus	Condition Name/Category		2003	2004	2005	2006
Anomalies of jaw			2003			1
Anterior horn cell disease Autism, Childhood disintegrative disorder, Asperger, Rett syndrome, and Pervasive developmental disorders not otherwise specified 299.00-299.99 158 79 18 Cerdral nervous system anomalies 745.00-747.99 1,715 1,920 1,939 1.83 Central nervous system anomalies 745.00-747.99 344 311 321 25 Cerebral degenerations usually manifest in childhood 330.00-330.99 9 5 4 Chromosomal anomalies 758.00-758.99 184 188 177 17 Cleft palate and cleft lip 749.00-749.99 140 167 140 12 Coagulation defects 286.00-286.50 32 21 12 12 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,45 Congenital nystagmus 379.51 6 3 9 Constitutional aplastic anemia 284.00 1 1 1 1 Diabetes mellitus 250.00-250.99 164 128 65 44 Disseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism Dyshormonogenic goiter 246.10 2 Ear, Face and Neck anomalies 743.00-743.99 237 203 177 15 Eye anomalies 743.00-743.99 237 203 177 15 Eye anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Gastrointestinal anomalies 752.00-753.99 1,515 1,697 1,604 1,55 Neoplasms of kin Musculoskeletal anomalies 754.00-750.99 96 88 53 25 Neoplasms of kin 210.00-208.99 96 88 53 25 Neoplasms of kin 211.80 1 1 Neoplasms of kin 227.00-279.99 203 189 190 160 Autismus of peritoneum 211.80 1 1 Musculoskeletal anomalies 752.00-753.99 1,515 1,697 1,604 1,55 Neoplasms of kin 210.00-210.99 1,515 1,697 1,604 1,55 Neoplasms of kin 210.00-210.99 1,515 1,097 1,604 1,55 Neoplasms of kin 210.00-210.99 203 189 190 160 Other congenital anomalies 759.00-759.99 203 189 190 160 Other testicular dysfunction 227.80 Primary thrombocytopenia 328.00-38.99 106 85 55 33 Retrolental fibroplasia 362.21 155 149 145 160 Strabismus and other disorders of binocular eye movement 378.00-750.29 357 361 321			50			55
Autism, Childhood disintegrative disorder, Asperger, Rett syndrome, and Pervasive developmental disorders not otherwise specified 299,00-299,99 158 79 18 18 180,00-747,99 1,715 1,920 1,939 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1,83 1	· ·		 	+		2
disorder, Asperger, Rett syndrome, and Pervasive developmental disorders not otherwise specificd 299.00-299.99 158 79 18 18 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.920 1.939 1.85 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930 1.930		333.00 333.77	7	0	1	
Syndrome, and Pervasive developmental disorders not otherwise specified 299.00-299.99 158 79 18 18 18 18 193 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,920 1,939 1,87 1,930 1,930 1,87 1,930 1,930 1,87 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,930 1,9						
otherwise specified 299.00-299.99 158 79 18 Cardiovascular anomalies 745.00-747.99 1,715 1,920 1,939 1,83 Cerebral nervous system anomalies 740.00-742.99 344 311 321 25 Cerebral degenerations usually manifest in childhood 330.00-330.99 9 5 4 Chromosomal anomalies 758.00-758.99 184 188 177 17 Cleft palate and cleft lip 749.00-749.99 140 167 140 12 Congulation defects 286.00-286.50 32 21 12 1 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,49 Constitutional aplastic anemia 284.00 1 1 1 1 Disacess of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 189						
Cardiovascular anomalies 745.00-747.99 1,715 1,920 1,939 1,87 Central nervous system anomalies 740.00-742.99 344 311 321 25 Cerebral degenerations usually manifest in childhood 330.00-330.99 9 5 4 Chromosomal anomalies 758.00-758.99 184 188 177 17 Cleft palate and cleft lip 749.00-749.99 140 167 140 13 Congulation defects 286.00-286.50 32 21 12 1 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,45 Congenital nystagmus 379.51 6 3 9 6 2 Constitutional aplastic anemia 284.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Central nervous system anomalies 740.00-742.99 344 311 321 25 Cerebral degenerations usually manifest in childhood 330.00-330.99 9 5 4 Chromosomal anomalies 758.00-758.99 184 188 177 17 Cleft palate and cleft lip 749.00-749.99 140 167 140 13 Coagulation defects 286.00-286.50 32 21 12 1 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,49 Congenital nystagmus 379.51 6 3 9 Constitutional aplastic anemia 284.00 1 1 1 1 Disaces of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 189 178 17 Eye anomalies 744.00-744.99 192 189 1	*	299.00-299.99	1			5
Cerebral degenerations usually manifest in childhood 330.00-330.99 9 5 4 Chromosomal anomalies 758.00-758.99 184 188 177 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175	Cardiovascular anomalies	745.00-747.99	1,715	1,920	1,939	1,872
manifest in childhood 330,00-330,99 9 5 4 Chromosomal anomalies 788,00-758,99 184 188 177 17 Cleft palate and cleft lip 749,00-749,99 140 167 140 12 Congulation defects 286,00-286,50 32 21 12 1 Congenital anomalies of integument 757,00-757,99 346 689 1,062 1,48 Congenital nystagmus 379,51 6 3 9 65 4 Constitutional aplastic anemia 284,00 1 1 1 1 1 Disaeses of white blood cells 288.00-288,99 615 665 534 37 Disorders involving the immune mechanism 279,00-279,99 54 48 42 2 Disorders involving the immune mechanism 279,00-279,99 54 48 42 2 Disorders involving the immune mechanism 279,00-279,99 54 48 42 2 Ear, Face and Neck anomalies 744,00-744,99	Central nervous system anomalies	740.00-742.99	344	311	321	292
Chromosomal anomalies 758.00-758.99 184 188 177 17 Cleft palate and cleft lip 749.00-749.99 140 167 140 13 Coagulation defects 286.00-286.50 32 21 12 1 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,49 Congenital nystagmus 379.51 6 3 9 2 Constitutional aplastic anemia 284.00 1 1 1 1 Disases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 189 178 17 Eye anomalies 744.00-744.99 192 189 178 17 Eye anomalies 750.30-751.99 344 447 437 44 Gastrointestinal anomalies 750.30-751.99 1,221 1,375 1,266	Cerebral degenerations usually					
Cleft palate and cleft lip	manifest in childhood	330.00-330.99	9	5	4	
Coagulation defects 286.00-286.50 32 21 12 1 Congenital anomalies of integument 757.00-757.99 346 689 1,062 1,49 Congenital nystagmus 379.51 6 3 9 Constitutional aplastic anemia 284.00 1 1 1 Diabetes mellitus 250.00-250.99 164 128 65 4 Diseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 48 42 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Eye anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15	Chromosomal anomalies	758.00-758.99	184	188	177	173
Congenital anomalies of integument	Cleft palate and cleft lip	749.00-749.99	140	167	140	138
Integument		286.00-286.50	32	21	12	17
Congenital nystagmus 379.51 6 3 9 Constitutional aplastic anemia 284.00 1 1 1 Diabetes mellitus 250.00-250.99 164 128 65 4 Diseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 2 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary retinal dystrophies 362.70 1 1 1 Mesothelioma of peritoneum						
Constitutional aplastic anemia 284.00 1 1 1 1 Diabetes mellitus 250.00-250.99 164 128 65 4 Diseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 2 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Muscular dystrophies and myopathies 362.70 1 1 1			346		1,062	1,495
Diabetes mellitus 250.00-250.99 164 128 65 4 Diseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 2 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Muscular dystrophies and myopathies 362.70 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15		379.51	6	3	9	5
Diseases of white blood cells 288.00-288.99 615 665 534 37 Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 189 178 17 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Mesothelioma of peritoneum 211.80 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 <td< td=""><td>•</td><td>284.00</td><td>-</td><td>+</td><td>1</td><td></td></td<>	•	284.00	-	+	1	
Disorders involving the immune mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 2 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 <	Diabetes mellitus	250.00-250.99		128	65	40
mechanism 279.00-279.99 54 48 42 2 Dyshormonogenic goiter 246.10 2 189 178 17 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 1 Mesothelioma of peritoneum 211.80 1 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Muscular dystrophies and myopathies 754.00-756.99 1,515 1,697 1,604	Diseases of white blood cells	288.00-288.99	615	665	534	375
Dyshormonogenic goiter 246.10 2 Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 1 Mesothelioma of peritoneum 211.80 1 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Muscular dystrophies and myopathies 359.00-359.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms	Disorders involving the immune					
Ear, Face and Neck anomalies 744.00-744.99 192 189 178 17 Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 1 Mesothelioma of peritoneum 211.80 1 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms-other 230.00-239.99 64 43 60 <	mechanism	279.00-279.99	54	48	42	21
Eye anomalies 743.00-743.99 237 203 177 15 Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 1 Mesothelioma of peritoneum 211.80 1 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190	Dyshormonogenic goiter	246.10	2			
Fetal alcohol syndrome 760.71 26 29 17 1 Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 1 Mesothelioma of peritoneum 211.80 1 1 1 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ear, Face and Neck anomalies	744.00-744.99	192	189	178	170
Gastrointestinal anomalies 750.30-751.99 344 447 437 46 Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 1 Mesothelioma of peritoneum 211.80 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-7	Eye anomalies	743.00-743.99	237	203	177	158
Genitourinary anomalies 752.00-753.99 1,221 1,375 1,266 1,15 Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 Mesothelioma of peritoneum 211.80 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99	Fetal alcohol syndrome	760.71	26	29	17	14
Hereditary hemolytic anemias 282.00-282.99 117 155 128 11 Hereditary retinal dystrophies 362.70 1 1 Mesothelioma of peritoneum 211.80 1 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 5 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Strabismus and other disorders of binocular eye movement 378.00-378.9	Gastrointestinal anomalies	750.30-751.99	344	447	437	467
Hereditary retinal dystrophies 362.70 1 Mesothelioma of peritoneum 211.80 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 1 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99	Genitourinary anomalies	752.00-753.99	1,221	1,375	1,266	1,155
Mesothelioma of peritoneum 211.80 1 Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies	Hereditary hemolytic anemias	282.00-282.99	117	155	128	118
Muscular dystrophies and myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33 <td>Hereditary retinal dystrophies</td> <td>362.70</td> <td></td> <td></td> <td>1</td> <td></td>	Hereditary retinal dystrophies	362.70			1	
myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	Mesothelioma of peritoneum	211.80		1		
myopathies 359.00-359.99 16 20 15 1 Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	Muscular dystrophies and					
Musculoskeletal anomalies 754.00-756.99 1,515 1,697 1,604 1,50 Neoplasms of lip 140.00-208.99 96 88 53 3 Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	* *	359.00-359.99	16	20	15	10
Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 7 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	• •	754.00-756.99	1,515	1,697	1,604	1,502
Neoplasms of skin 216.00-216.99 126 110 103 9 Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 1 1 Primary thrombocytopenia 287.30 33 30 7 7 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	Neoplasms of lip		t			35
Neoplasms-other 230.00-239.99 64 43 60 6 Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	•					90
Other congenital anomalies 759.00-759.99 203 189 190 16 Other testicular dysfunction 257.80 1 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 32 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33	1			-	-	60
Other testicular dysfunction 257.80 1 Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33						161
Primary thrombocytopenia 287.30 33 30 7 Respiratory system anomalies 748.00-748.99 292 339 325 34 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33						
Respiratory system anomalies 748.00-748.99 292 339 325 34 Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33			33	30	7	1
Retrolental fibroplasia 362.21 155 149 145 16 Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33			1			345
Strabismus and other disorders of binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33			1	†		167
binocular eye movement 378.00-378.99 106 85 55 3 Upper alimentary tract anomalies 750.00-750.29 357 361 321 33		2	100	- 12	1.0	107
Upper alimentary tract anomalies 750.00-750.29 357 361 321 33		378.00-378.99	106	85	55	33
			t			335
Waldenstroms macroglobulinemia 273.30 1 1	**			†	1	1

^{*}whose mothers were Indiana residents at the time of child's birth
**Includes hospital discharge data and physician reports
Data compiled on 10/22/2007.

Table 2: Number of Children* Reported ** to IBDPR with Only One Reportable Condition by Birth Year

Table 2. Number of Children			illi Olliy	One re	portable
Condition Name/Category	ICD-9-CM Codes	2003	2004	2005	2006
Anomalies of jaw	524.00-524.10	6	11	6	10
Anterior horn cell disease	335.00-335.99	1	2	1	
Autism, Childhood disintegrative disorder, Asperger, Rett syndrome, and Pervasive developmental					_
disorders not otherwise specified	299.00-299.99	99	47	10	3
Cardiovascular anomalies	745.00-747.99	682	789	853	825
Central nervous system anomalies	740.00-742.99	111	125	133	122
Cerebral degenerations usually manifest in childhood	330.00-330.99	2	1	3	
Chromosomal anomalies	758.00-758.99	35	30	47	35
Cleft palate and cleft lip	749.00-749.99	49	49	41	56
Coagulation defects	286.00-286.50	18	12	3	9
Congenital anomalies of integument	757.00-757.99	272	572	925	1,265
Congenital nystagmus	379.51	3	1	5	2
Diabetes mellitus	250.00-250.99	115	83	51	29
Diseases of white blood cells	288.00-288.99	479	478	392	267
Disorders involving the immune					
mechanism	279.00-279.99	18	13	18	5
Dyshormonogenic goiter	246.10	2			
Ear, Face and Neck anomalies	744.00-744.99	112	105	97	85
Eye anomalies	743.00-743.99	172	152	118	103
Fetal alcohol syndrome	760.71	10	11	3	5
Gastrointestinal anomalies	750.30-751.99	233	301	272	317
Genitourinary anomalies	752.00-753.99	844	913	841	778
Hereditary hemolytic anemias	282.00-282.99	85	99	93	86
Mesothelioma of peritoneum	211.80		1		
Muscular dystrophies and myopathies	359.00-359.99	7	7	3	3
Musculoskeletal anomalies	754.00-756.99	1,021	1,119	1,062	1,013
Neoplasms of lip	140.00-208.99	32	29	20	16
Neoplasms of skin	216.00-216.99	96	85	79	62
Neoplasms-other	230.00-239.99	29	23	26	29
Other congenital anomalies	759.00-759.99	58	38	45	46
Other testicular dysfunction	257.80		1		
Primary thrombocytopenia	287.30	14	11	3	
Respiratory system anomalies	748.00-748.99	122	140	122	160
Retrolental fibroplasia	362.21	45	56	47	66
Strabismus and other disorders of					
binocular eye movement	378.00-378.99	54	41	23	17
Upper alimentary tract anomalies	750.00-750.29	284	287	257	277
Waldenstroms macroglobulinemia	273.30		1	1	1

^{*}whose mothers were Indiana residents at the time of child's birth
**includes hospital discharge data and physician reports

Table 3: Number of Children* Reported** to IBDPR with More Than One Reportable Condition by Birth Year

Table 3. Number of Children Ro	ICD-9-CM		WIOIC II		еропанн
Condition Name/Category	Codes	2003	2004	2005	2006
Adenoma of lung bronchus	212.30		1	1	1
Anomalies of jaw	524.00-524.10	44	43	47	45
Anterior horn cell disease	335.00-335.99	3	6		2
Autism, Childhood disintegrative disorder, Asperger, Rett syndrome, and Pervasive developmental					
disorders not otherwise specified	299.00-299.99	59	32	8	2
Cardiovascular anomalies	745.00-747.99	1,033	1,131	1,086	1,047
Central nervous system anomalies	740.00-742.99	233	186	188	170
Cerebral degenerations usually manifest in childhood	330.00-330.99	7	4	1	
Chromosomal anomalies	758.00-758.99	149	158	130	138
Cleft palate and cleft lip	749.00-749.99	91	118	99	82
Coagulation defects	286.00-286.50	14	9	9	8
Congenital anomalies of integument	757.00-757.99	74	117	137	230
Congenital nystagmus	379.51	3	2	4	3
Constitutional aplastic anemia	284.00	1	1	1	
Diabetes mellitus	250.00-250.99	49	45	14	11
Diseases of white blood cells	288.00-288.99	136	187	142	108
Disorders involving the immune mechanism	279.00-279.99	36	35	24	16
Ear, Face and Neck anomalies	744.00-744.99	80	84	81	85
Eye anomalies	743.00-743.99	65	51	59	55
Fetal alcohol syndrome	760.71	16	18	14	9
Gastrointestinal anomalies	750.30-751.99	111	146	165	150
Genitourinary anomalies	752.00-753.99	377	462	425	377
Hereditary hemolytic anemias	282.00-282.99	32	56	35	32
Hereditary retinal dystrophies	362.70			1	
Muscular dystrophies and					
myopathies	359.00-359.99	9	13	12	7
Musculoskeletal anomalies	754.00-756.99	494	578	542	489
Neoplasms of lip	140.00-208.99	64	59	33	19
Neoplasms of skin	216.00-216.99	30	25	24	28
Neoplasms-other	230.00-239.99	35	20	34	31
Other congenital anomalies	759.00-759.99	145	151	145	115
Primary thrombocytopenia	287.30	19	19	4	1
Respiratory system anomalies	748.00-748.99	170	199	203	185
Retrolental fibroplasia	362.21	110	93	98	101
Strabismus and other disorders of					
binocular eye movement	378.00-378.99	52	44	32	16
Upper alimentary tract anomalies	750.00-750.29	73	74	64	58

^{*}whose mothers were Indiana residents at the time of child's birth

^{**}includes hospital discharge data and physician reports Data compiled on 10/22/2007.

Table 4A: Sources of Case Ascertainment Data for Targeted Conditions of 2003-2004 Births to Indiana Women

Table 4A: Sources of Case Ascert	ainment		geted Conditions		Births to Indiana
		Reported	D (11	Reported by	D (11
Defect	Total	by Physician	Reported by	Physician and Hospital	Reported by Hospital Only
Anencephalus	12	0	Physician Only 0	Hospitai 0	12
Aniridia	2	0	0	0	2
	30				
Anophthalmia/microphthalmia		1	1	0	29
Anotia/microtia	10	3	0	0	7
Acticl and the foot	57	0		0	1.755
Atrial septal defect	1,759	4	3	1	1,755
Autism	173	35	23	12	138
Biliary atresia	15	0	0	0	15
Bladder exstrophy	3	0	0	0	3
Choanal atresia	34	0	0	0	34
Cleft lip with and without cleft palate	296	8	4	4	288
Cleft palate without cleft lip	189	10	3	7	179
Coarctation of aorta	151	5	3	2	146
Common truncus	131	0	0	0	
Common truncus Congenital cataract	29		0	1	13 28
Congenital cataract Congenital hip dislocation		1			
	231 53	0	0	0	231
Diaphragmatic hernia		3	3		50
Down syndrome	219	24	5	19	195
Ebstein's anomaly	13	0	0	0	13
Encephalocele	18	0	0	0	18
Endocardial cushion defect	116	2	1	1	114
Esophageal atresia/tracheoesophageal fistula	38	0	0	0	38
Fetus or newborn affected by					
maternal alcohol use	55	28	19	9	27
Gastroschisis	62	0	0	0	62
Hirshsprung's disease (congenital megacolon)	47	1	0	1	46
Hydrocephalus without spina					
bifida	128	1	0	1	127
Hypoplastic left heart syndrome	44	0	0	0	44
Hypospadias and Epispadias	683	5	4	1	678
Microcephalus	250	17	13	4	233
Obstructive genitourinary defect	571	0	0	0	571
Omphalocele	8	0	0	0	8
Patent ductus arteriosus	1,346	2	1	1	1,344
Pulmonary valve atresia and					
stenosis	253	1	0	1	252
Pyloric stenosis	462	0	0	0	462
Rectal and large intestinal atresia/stenosis	59	0	0	0	59
Reduction deformity, lower limbs	29	2	1	1	27
Reduction deformity, upper limbs	53	9	7	2	44
Renal agenesis/hypoplasia	55	0	0	0	55
Spina bifida without anencephalus	151	2	1	1	149
Tetralogy of fallot	80	0	0	0	80
Transposition of great arteries	126	1	0	1	125
Tricuspid valve atresia and					
stenosis	21	0	0	0	21
Trisomy 13	19	3	1	2	16
Trisomy 18	22	3	0	3	19
Ventricular septal defect	891	8	6	2	883

Table 4B: Sources of Case Ascertainment Data for Reportable Conditions* of 2003-2004 Births to Indiana

Women		Reported	Reported by	Reported by	Reported
		by	Physician	Physician	by Hospital
Condition Name/Category	Total	Physician	Only	and Hospital	Only
Adenoma of lung bronchus	1	0	0	0	1
Anomalies of jaw	118	2	2	0	116
Anterior horn cell disease	13	0	0	0	13
Autism, Childhood disintegrative					
disorder, Asperger, Rett syndrome,					
and Pervasive developmental					
disorders not otherwise specified	87	29	25	4	58
Cardiovascular anomalies	1959	12	9	3	1,947
Central nervous system anomalies	280	2	1	1	278
Cerebral degenerations usually					
manifest in childhood	14	1	1	0	13
Chromosomal anomalies	173	16	11	5	157
Cleft palate and cleft lip	4	0	0	0	4
Coagulation defects	72	0	0	0	72
Congenital anomalies of					
integument	1067	4	2	2	1,063
Congenital nystagmus	9	0	0	0	9
Constitutional aplastic anemia	2	0	0	0	2
Diabetes mellitus	361	1	1	0	360
Diseases of white blood cells	1337	0	0	0	1,337
Disorders involving the immune					
mechanism	128	1	0	1	127
Dyshormonogenic goiter	2	0	0	0	2
Ear, Face and Neck anomalies	403	4	3	1	399
Eye anomalies	406	1	1	0	405
Gastrointestinal anomalies	229	0	0	0	229
Genitourinary anomalies	1819	4	2	2	1,815
Hereditary hemolytic anemias	325	0	0	0	325
Mesothelioma of peritoneum	1	0	0	0	1
Muscular dystrophies and					
myopathies	44	1	1	0	43
Musculoskeletal anomalies	3425	71	51	20	3,354
Neoplasms	721	4	3	1	717
Other congenital anomalies	421	26	20	6	395
Other Testicular dysfunction	1	0	0	0	1
Primary thrombocytopenia	64	0	0	0	64
Respiratory system anomalies	633	8	7	1	625
Retrolental fibroplasia	304	0	0	0	304
Strabismus and other disorders of					
binocular eye movement	214	3	3	0	211
Upper alimentary tract anomalies	722	6	6	0	716
*excludes targeted conditions	1	0	0	0	1

^{*}excludes targeted conditions Data compiled on 10/22/2007.

Table 5: Targeted Conditions Reported to IBDPR via Hospital Discharge Data for Children Born in 2003-2004 which are Confirmed or Determined as Probable by Medical Chart Audits or Physician Reports

Category	ICD-9-CM Codes	Number of Children	Targeted Conditions Reported	Conditions per Child	Targeted Conditions Confirmed	Confirmed/ Probable Percentage
Autism, childhood						
disintegrative disorder,						
Asperger, Rett syndrome,						
and pervasive						
developmental disorders	200 00 200 00	1.40	150	1.01	1.4	0.20/
not otherwise specified	299.00-299.99	149	150	1.01	14	9.3%
Cardiovascular anomalies	745.00-747.99	3057	4856	1.59	2294	47.2%
Central nervous system	740.00.742.00	4.67	5.45	1.17	221	5 0.00/
anomalies	740.00-742.99	467	545	1.17	321	58.9%
Chromosomal anomalies	758.00-758.99	249	254	1.02	216	85.0%
Cleft palate and cleft lip	749.00-749.99	306	478	1.56	306	64.0%
Ear, Face and Neck						
anomalies	744.00-744.99	7	7	1.00	5	71.4%
Eye anomalies	743.00-743.99	56	60	1.07	34	56.7%
Fetal alcohol syndrome	760.71	36	36	1.00	25	69.4%
Gastrointestinal anomalies	750.30-751.99	606	621	1.02	504	81.2%
Genitourinary anomalies	752.00-753.99	1206	1308	1.08	914	69.9%
Musculoskeletal						
anomalies	754.00-756.99	390	425	1.09	256	60.2%
Respiratory system						
anomalies	748.00-748.99	34	34	1.00	21	61.8%

Table 6: Confirmed and Probable Counts and Rates by Race of the Targeted Conditions for 2003-2004 Births to Indiana Women (Rates per 10,000 live births displayed in shaded area.)

	•			Race/Ethni			
Defect	Non- Hispanic White	Non- Hispanic Black	Hispanic	Asian or Pacific Islander	Ámerican Indian or Alaskan Native	Other / Unknown	Total
Anencephalus	5	1	2	0	0	0	8
	0.36	0.53	1.46	0	0		0.46
Aniridia	0	1	0	0	0	0	1
	0	0.53	0	0	0		0.06
Anophthalmia/microphthalmia	8	1	1	0	0	2	12
	0.58	0.53	0.73	0	0		0.69
Anotia/microtia	4	0	3	0	0	1	8
	0.29	0	2.19	0	0		0.46
Aortic valve stenosis	34	1	1	0	0	0	36
	2.47	0.53	0.73	0	0		2.07
Atrial septal defect	553	71	37	1	1	6	669
	40.24	37.91	27.06	13.40	46.95		38.40
Autism	31	2	1	0	0	3	37
	2.26	1.07	0.73	0	0		2.12
Biliary atresia	9	1	2	0	0	1	13
	0.65	0.53	1.46	0	0		0.75
Bladder exstrophy	0	0	0	1	0	1	2
	0	0	0	13.40	0		0.11
Choanal atresia	17	2	2	0	0	0	21
	1.24	1.07	1.46	0	0		1.21
Cleft lip with and without cleft palate	169	7	16	0	0	5	197
	12.30	3.74	11.70	0	0		11.31
Cleft palate without cleft lip	97	8	6	0	0	2	113
cion palate initioal dell'ip	7.06	4.27	4.39	0	0	-	6.49
Coarctation of aorta	89	9	8	1	0	2	109
	6.48	4.81	5.85	13.40	0	-	6.26
Common truncus	8	2	0	0	0	0	10
Seminori dunious	0.58	1.07	0	0	0	J	0.57
Congenital cataract	16	3	3	0	0	0	22
oongonia tadaat	1.16	1.60	2.19	0	0	U	1.26
Congenital hip dislocation	89	4	12	0	0	2	107
Congenital hip dislocation	6.48	2.14	8.78	0	0	2	6.14
Dianhragmatic harris	38	3		1		0	46
Diaphragmatic hernia	2.76	1.60	4 2.93	1 13.40	0	0	2.64
Davin avadani-						2	
Down syndrome	163	15	8	1 42 40	0	3	190
-	11.86	8.01	5.85	13.40	0		10.91
Ebstein's anomaly	8	1	2	0	0	0	11
	0.58	0.53	1.46	0	0		0.63
Encephalocele	9	1	2	0	0	0	12
	0.65	0.53	1.46	0	0		0.69
Endocardial cushion defect	79	8	3	0	0	1	91
	5.75	4.27	2.19	0	0		5.22
Esophageal atresia/tracheoesophageal fistula	26	2	1	1	0	0	30
	1.89	1.07	0.73	13.40	0		1.72

Note 1—Rates based on fewer than 20 cases are unstable and are not comparable.

Note 2—Race is assigned to the child based on the mother's reporting about herself.

Table 6: Continued. Confirmed and Probable Counts and Rates by Race of the Targeted Conditions for 2003-2004 Births to Indiana Women (Rates per 10,000 live births displayed in shaded area.)

2004 Births to mulana wome	- (2 tare 5 I	701 10,000		Race/Ethni			•
Defect	Non- Hispanic White	Non- Hispanic Black	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other / Unknown	Total
Fetus or newborn affected by maternal alcohol use	31	8	0	0	0	5	44
	2.26	4.27	0	0	0		2.53
Gastroschisis	35	2	4	0	0	1	42
	2.55	1.07	2.93	0	0		2.41
Hirshsprung's disease (congenital megacolon)	30	4	0	1	0	0	35
	2.18	2.14	0	13.40	0		2.01
Hydrocephalus without Spina Bifida	78	12	6	0	0	2	98
	5.68	6.41	4.39	0	0		5.63
Hypoplastic left heart syndrome	29	4	0	1	0	0	34
	2.11	2.14	0	13.40	0		1.95
Hypospadias and Epispadias	405	48	12	2	0	8	475
	29.47	25.63	8.78	26.81	0		27.27
Microcephalus	110	20	11	0	0	3	144
	8	10.68	8.04	0	0		8.27
Obstructive genitourinary defect	340	34	19	2	2	7	404
	24.74	18.15	13.89	26.81	93.90		23.19
Omphalocele	6	0	2	0	0	0	8
	0.44	0	1.46	0	0		0.46
Patent ductus arteriosus	305	52	23	2	0	3	385
	22.19	27.76	16.82	26.81	0		22.10
Pulmonary valve atresia and stenosis	141	18	9	2	0	5	175
	10.26	9.61	6.58	26.81	0		10.05
Pyloric stenosis	328	19	29	1	0	2	379
	23.87	10.14	21.21	13.40	0		21.76
Rectal and large intestinal atresia/stenosis	40	4	1	1	0	1	47
	2.91	2.14	0.73	13.40	0		2.70
Reduction deformity, lower limbs	17	2	0	0	0	0	19
	1.24	1.07	0	0	0		1.09
Reduction deformity, upper limbs	39	2	3	0	0	0	44
	2.84	1.07	2.19	0	0		2.53
Renal agenesis/hypoplasia	28	4	3	1	1	0	37
	2.04	2.14	2.19	13.40	46.95		2.12
Spina bifida without anencephalus	56	4	11	1	0	1	73
	4.07	2.14	8.04	13.40	0		4.19
Tetralogy of fallot	42	11	2	0	0	2	57
	3.06	5.87	1.46	0	0		3.27
Transposition of great arteries	67	6	5	1	0	1	80
	4.88	3.20	3.66	13.40	0		4.59
Tricuspid valve atresia and stenosis	16	0	0	0	0	1	17
	1.16	0	0	0	0		0.98
Trisomy 13	10	1	5	0	0	1	17
	0.73	0.53	3.66	0	0		0.98

Note 1—Rates based on fewer than 20 cases are unstable and are not comparable.

Note 2—Race is assigned to the child based on the mother's reporting about herself. Data compiled on 10/22/2007.

Table 6: Continued. Confirmed and Probable Counts and Rates by Race of the Targeted Conditions for 2003-2004 Births to Indiana Women (Rates per 10,000 live births displayed in shaded area.)

		Race/Ethnicity							
Defect	Non- Hispanic White	Non- Hispanic Black	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other / Unknown	Total		
Trisomy 18	10	1	2	1	1	0	15		
	0.73	0.53	1.46	13.40	46.95		0.86		
Ventricular septal defect	496	44	48	3	3	14	608		
	36.09	23.49	35.10	40.21	140.85		34.90		
All Defects	4111	443	309	25	8	86	4982		
	299.12	236.53	225.98	335.12	375.59		285.98		
Total Live Births	137435	18729	13674	746	213		174206		

The counts and rates of occurences of defects reflected in this report are based on the Indiana Birth Defects & Problems Registry Data. Only those conditions which have been confirmed or which have been determined to be highly probable by the Chart Audit Process are included in the data. This report is based on real time data and subject to change based on additions and corrections to the data.

Note 1—Rates based on fewer than 20 cases are unstable and are not comparable.

Note 2—Race is assigned to the child based on the mother's reporting about herself.

Table 7: Confirmed and Probable Counts and Rates of Trisomy by Maternal Age for 2003-2004 Births to Indiana Women (Rates per 10,000 live births displayed in the shaded area.)

	Age					
Defect	<35	35 and >	Total(**)			
Down syndrome	114	76	190			
	7.29	42.46	10.91			
Trisomy 13	11	6	17			
	0.70	3.35	0.98			
Trisomy 18	7	8	15			
	0.45	4.47	0.86			
Total Live Births	156,306	17,900	174,206			

The counts and rates of occurences of defects reflected in this report are based on the Indiana Birth Defects & Problems Registry Data. Only those conditions which have been confirmed or which have been determined to be highly probable by the Chart Audit Process are included in the data. This report is based on real time data and subject to change based on additions and corrections to the data.

Note—Rates based on fewer than 20 cases are unstable and are not comparable.

^{**} Total Includes Unknown Age

Table 8: Confirmed and Probable Counts and Rates of Targeted Conditions for 2003-2004 Births to Indiana Women by County (Rates per 1,000 live births.)

County Live Births	;		County	Live Births		
Defect	Total Number	Rate	Defect		Total Number	Ra
ADAMS 1145			CLARK	2012		
Ventricular septal defect	5	4.37	Atrial septal defec	ct	6	2.9
All Defects	26	22.71	Hypospadias and	l Epispadias	6	2.9
ALLEN 10097			Ventricular septal	l defect	16	7.9
Atrial septal defect	91	9.01	All Defects		43	21.3
Cleft lip with and without cleft palate	15	1.49	CLAY	567		
Cleft palate without cleft lip	10	0.99	All Defects		16	28.2
Coarctation of aorta	6	0.59	CLINTON	848		
Down syndrome	6	0.59	All Defects		21	24.7
Fetus or newborn affected by maternal use	alcohol 10	0.99	CRAWFORD	208	*	
Hydrocephalus without Spina Bifida	5	0.5	All Defects		*	
Hypospadias and Epispadias	26	2.58	DAVIESS	515		
Microcephalus	23	2.28	All Defects		9	17.4
Obstructive genitourinary defect	7	0.69	DEARBORN	677		
Patent ductus arteriosus	34	3.37	All Defects		7	10.3
Pulmonary valve atresia and stenosis	21	2.08	DECATUR	666		
•			Pyloric stenosis		5	7.5
Pyloric stenosis	22	2.18	All Defects		19	28.5
Rectal and large intestinal atresia/steno		0.59	DEKALB	977		
Tetralogy of fallot	5	0.5	Atrial septal defec	ct	7	7.1
Ventricular septal defect	46	4.56	Ventricular septal	I defect	8	8.1
All Defects	370	36.64	All Defects		37	37.8
BARTHOLOMEW 1810			DELAWARE	2489		
Atrial septal defect	6	3.31	Atrial septal defec	ct	28	11.2
Obstructive genitourinary defect	6	3.31	Hypospadias and	l Epispadias	7	2.8
Ventricular septal defect	5	2.76	Obstructive genito	ourinary defect	18	7.2
All Defects	44	24.31	Patent ductus art	eriosus	11	4.4
BENTON 216			Pyloric stenosis		7	2.8
All Defects	*		Ventricular septal	l defect	16	6.4
BLACKFORD 283			All Defects		117	47.0
All Defects	13	45.94	DUBOIS	900		
BOONE 1275			All Defects		16	17.7
Atrial septal defect	11	8.63				
Coarctation of aorta	6	4.71				
Obstructive genitourinary defect	8	6.27				
Ventricular septal defect	9	7.06				
All Defects	52	40.78				
BROWN 287			1			
All Defects	*					
CARROLL 432			1			
All Defects	9	20.83				
CASS 882			1			
All Defects	18	20.41				

Note—Rates based on fewer than 20 cases are unstable and are not comparable

^{*} Indicates <5 in number occurred.

Table 8: (Continued) Confirmed and Probable Counts and Rates of Targeted Conditions for 2003-2004 Births to Indiana Women by County (Rates per 1,000 live births.)

4.79 0.86 1.03 1.54 0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Atrial septal defect Congenital hip dislocation Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias Ventricular septal defect Hypospadias and Epispadias Ventricular septal defect Ventricular septal defect Hypospadias and Epispadias Ventricular septal defect	12 5 5 10 12 5 8 84 25 10 6 11 8 6 7 7 83	3.9 1.62 3.25 3.9 1.62 2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44 21.97 9.25
0.86 0.86 1.03 1.54 0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Congenital hip dislocation Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	5 5 10 12 5 5 8 84 25 10 6 11 8 6 7 7 83	1.62 1.62 3.25 3.9 1.62 2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
0.86 1.03 1.54 0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	5 10 12 5 8 84 25 10 6 11 8 6 7 7 7 83	1.62 3.25 3.9 1.62 2.6 27.27 27.56 4.39 2.63 3.51 2.63 3.07 3.07 36.44
1.03 1.54 0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Obstructive genitourinary defect Patent ductus arteriosus Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	10 12 5 5 8 84 25 10 6 11 8 6 7 7 7 83	3.25 3.9 1.62 2.6 27.27 27.56 4.39 2.63 3.51 2.63 3.07 3.07 36.44
1.54 0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Patent ductus arteriosus Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	12 5 8 84 25 10 6 11 8 6 7 7 83	3.9 1.62 2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
0.86 1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Pulmonary valve atresia and stenosis Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	5 8 84 25 10 6 11 8 6 7 7 83	1.62 1.62 2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
1.03 0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Pyloric stenosis Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	5 8 84 25 10 6 11 8 6 7 7 83	1.62 2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44 21.97
0.86 2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	Ventricular septal defect All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	8 84 25 10 6 11 8 6 7 7 7 83	2.6 27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
2.05 4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	All Defects HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	84 25 10 6 11 8 6 7 7 83	27.27 27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44 21.97
4.79 1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	HENRY 907 All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	25 10 6 11 8 6 7 7 7 83	27.56 4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
1.54 3.94 4.62 35.26 11.95 3.85 13.86 43.75	All Defects HOWARD 2278 Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	10 6 11 8 6 7 7 83	4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
3.94 4.62 35.26 11.95 3.85 13.86 43.75	Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	10 6 11 8 6 7 7 83	4.39 2.63 4.83 3.51 2.63 3.07 3.07 36.44
4.62 35.26 11.95 3.85 13.86 43.75	Atrial septal defect Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	6 11 8 6 7 7 83	2.63 4.83 3.51 2.63 3.07 3.07 36.44
35.26 11.95 3.85 13.86 43.75 16.67	Cleft lip with and without cleft palate Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	6 11 8 6 7 7 83	2.63 4.83 3.51 2.63 3.07 3.07 36.44
11.95 3.85 13.86 43.75 16.67	Hypospadias and Epispadias Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	11 8 6 7 7 83	4.83 3.51 2.63 3.07 3.07 36.44
3.85 13.86 43.75 16.67	Obstructive genitourinary defect Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	8 6 7 7 83 19 8	3.51 2.63 3.07 3.07 36.44 21.97
3.85 13.86 43.75 16.67	Patent ductus arteriosus Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	6 7 7 83 19 8	2.63 3.07 3.07 36.44 21.97
13.86 43.75 16.67	Pyloric stenosis Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	7 7 83 19 8	3.07 3.07 36.44 21.97
13.86 43.75 16.67	Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	7 83 19 8	3.07 36.44 21.97
43.75 16.67	Ventricular septal defect All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	83 19 8	36.44 21.97
43.75 16.67	All Defects HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	19 8	36.44 21.97
16.67	HUNTINGTON 865 Atrial septal defect Hypospadias and Epispadias	19 8	21.97
16.67	Atrial septal defect Hypospadias and Epispadias	8	
	Hypospadias and Epispadias	8	
32.54	Toritrodia copia acrost		5.78
	All Defects	58	67.05
	JACKSON 1048		
12.42		8	7.63
	·	6	5.73
35.19	•	36	34.35
	JASPER 710		
31.07		13	18.31
2.53		5	9.29
0.98	·		29.74
0.98			
1.12		12	19.2
1.26			
		8	11.73
5.47			32.26
			52.20
		12	3.6
	· ·		1.5
			2.7
55.57			2.1
5 97			1.8
	· ·		
		80	24
		20	25.00
	All Defects	30	35.93
34.51			
	35.19 31.07 2.53 0.98 0.98 1.12 1.26 4.07 5.47 2.53 1.82 5.19 33.97	Pyloric stenosis All Defects	Pyloric stenosis

^{*} Indicates <5 in number occurred.

Note—Rates based on fewer than 20 cases are unstable and are not comparable. Data compiled on 10/24/2007.

Table 8: (Continued) Confirmed and Probable Counts and Rates of Targeted Conditions for 2003-2004 Births to Indiana Women by County (Rates per 1,000 live births.)

kosciusko 1974	1 , , , , , ,		MARION 27982		
Atrial septal defect	13	6.59	Aortic valve stenosis	5	0.18
Hypospadias and Epispadias	7	3.55	Atrial septal defect	108	3.86
Patent ductus arteriosus	5	2.53	Autism	5	0.18
Pyloric stenosis	8	4.05	Choanal atresia	7	0.25
All Defects	56	28.37	Cleft lip with and without cleft palate	21	0.75
LAGRANGE 1148			Cleft palate without cleft lip	25	0.89
All Defects	33	28.75	Coarctation of aorta	15	0.54
LAKE 12522			Congenital cataract	5	0.18
Atrial septal defect	10	0.8	Congenital hip dislocation	15	0.54
Cleft palate without cleft lip	6	0.48	Diaphragmatic hernia	10	0.36
Congenital hip dislocation	7	0.56	Down syndrome	28	1
Down syndrome	13	1.04	Endocardial cushion defect	9	0.32
Hydrocephalus without Spina Bifida	7	0.56	Esophageal atresia/tracheoesophageal fistula	5	0.18
Hypospadias and Epispadias	20	1.6	Fetus or newborn affected by maternal alcohol	5	0.18
Microcephalus	5	0.4	use		5.10
Obstructive genitourinary defect	15	1.2	Gastroschisis	10	0.36
Patent ductus arteriosus	7	0.56	Hirshsprung's disease (congenital megacolon)	6	0.21
Pyloric stenosis	22	1.76	Hydrocephalus without Spina Bifida	25	0.89
Ventricular septal defect	32	2.56	Hypoplastic left heart syndrome	5	0.18
All Defects	196	15.65	Hypospadias and Epispadias	97	3.47
LAPORTE 2363			Microcephalus	26	0.93
Atrial septal defect	11	4.66	Obstructive genitourinary defect	83	2.97
Hypospadias and Epispadias	7	2.96	Patent ductus arteriosus	69	2.47
Obstructive genitourinary defect	6	2.54	Pulmonary valve atresia and stenosis	27	0.96
Patent ductus arteriosus	14	5.92	Pyloric stenosis	61	2.18
Pyloric stenosis	8	3.39	Rectal and large intestinal atresia/stenosis	8	0.29
Ventricular septal defect	12	5.08	Reduction deformity, upper limbs	5	0.18
All Defects	85	35.97	Renal agenesis/hypoplasia	8	0.29
LAWRENCE 995		00.07	Spina bifida without anencephalus	8	0.29
Obstructive genitourinary defect	8	8.04	Tetralogy of fallot	10	0.36
All Defects	25	25.13	Transposition of great arteries	16	0.57
MADISON 3040		20.10	Trisomy 13	5	0.18
Atrial septal defect	7	2.3	Ventricular septal defect	87	3.11
Hypospadias and Epispadias	9	2.96	All Defects	836	29.88
Microcephalus	5	1.64	MARSHALL 1190		
Obstructive genitourinary defect	11	3.62	All Defects	19	15.97
Pyloric stenosis	7	2.3	MARTIN 123		
Ventricular septal defect	9	2.96	All Defects	5	40.65
All Defects	93	30.59	MIAMI 758		
All Delects		50.55	All Defects	18	23.75
			MONROE 2396		
			Atrial septal defect	8	3.34
			Hypospadias and Epispadias	7	2.92
			Obstructive genitourinary defect	5	2.09
			Patent ductus arteriosus	8	3.34
			Ventricular septal defect	8	3.34
			All Defects	62	25.88
			All Defects MONTGOMERY 821	62	25.88

^{*} Indicates <5 in number occurred.

Note—Rates based on fewer than 20 cases are unstable and are not comparable.

Table 8: (Continued) Confirmed and Probable Counts and Rates of Targeted Conditions for 2003-2004 Births to Indiana Women by County (Rates per 1,000 live births.)

o Indiana women by County	(Kates per 1,000	nve bii			
MORGAN 1664			STEUBEN 658		
Hypospadias and Epispadias	13	7.81	Pyloric stenosis	5	7.6
Ventricular septal defect	5	3	All Defects	21	31.91
All Defects	55	33.05	STJOSEPH 6969		
NEWTON 240			Atrial septal defect	27	3.87
All Defects	5	20.83	Cleft lip with and without cleft palate	5	0.72
NOBLE 1226			Congenital hip dislocation	5	0.72
Ventricular septal defect	8	6.53	Down syndrome	11	1.58
All Defects	46	37.52	Endocardial cushion defect	6	0.86
OHIO 95			Hydrocephalus without Spina Bifida	11	1.58
All Defects	*		Hypospadias and Epispadias	10	1.43
ORANGE 389			Microcephalus	5	0.72
All Defects	14	35.99	Obstructive genitourinary defect	7	1
OWEN 422			Patent ductus arteriosus	46	6.6
All Defects	16	37.91	Pyloric stenosis	9	1.29
PARKE 264			Ventricular septal defect	21	3.01
All Defects	6	22.73	All Defects	217	31.14
PERRY 362			SULLIVAN 368	217	51.14
All Defects	9	24.86	All Defects	8	21.74
PIKE 252			SWITZERLAND 185	-	21.74
All Defects	12	47.62	All Defects	*	
PORTER 3463			TIPPECANOE 3887		
Atrial septal defect	5	1.44	Atrial septal defect	14	3.6
Down syndrome	7	2.02	· ·	6	1.54
Hypospadias and Epispadias	7	2.02	Cleft lip with and without cleft palate		
Obstructive genitourinary defect	6	1.73	Down syndrome	8	2.06
Pyloric stenosis	10	2.89	Hypospadias and Epispadias	8	2.06
Ventricular septal defect	17	4.91	Patent ductus arteriosus	7	1.8
All Defects	90	25.99	Pulmonary valve atresia and stenosis	7	1.8
POSEY 537	30	20.00	Pyloric stenosis	5	1.29
All Defects	10	18.62	Ventricular septal defect	15	3.86
PULASKI 283	10	10.02	All Defects	100	25.73
All Defects	5	17.67	TIPTON 366		
PUTNAM 713	3	17.07	All Defects	10	27.32
	5	7.01	UNION 40		
Atrial septal defect			All Defects	*	
All Defects	27	37.87			
RANDOLPH 486	40	20.50			
All Defects	10	20.58			
RIPLEY 591	40	40.00			
All Defects	10	16.92			
RUSH 326	40				
All Defects	18	55.21			
SCOTT 485					
Atrial septal defect	6	12.37			
All Defects	19	39.18			
SHELBY 996					
Atrial septal defect	6	6.02			
Ventricular septal defect	8	8.03			
All Defects	43	43.17			
SPENCER 324]		
All Defects	8	24.69			
STARKE 513			1		
All Defects	7	13.65			

^{*} Indicates <5 in number occurred.

Note—Rates based on fewer than 20 cases are unstable and are not comparable.

Table 8: (Continued) Confirmed and Probable Counts and Rates of Targeted Conditions for 2003-2004 Births to Indiana Women by County (Rates per 1,000 live births.)

<u> </u>		
VANDERBURGH 4479		
Atrial septal defect	5	1.12
Coarctation of aorta	5	1.12
Hypospadias and Epispadias	13	2.9
Obstructive genitourinary defect	7	1.56
Patent ductus arteriosus	8	1.79
Pyloric stenosis	20	4.47
Ventricular septal defect	15	3.35
All Defects	111	24.78
VERMILLION 313		
All Defects	12	38.34
VIGO 2442		
Atrial septal defect	7	2.87
Hypospadias and Epispadias	6	2.46
Microcephalus	5	2.05
Obstructive genitourinary defect	9	3.69
Patent ductus arteriosus	7	2.87
Pyloric stenosis	9	3.69
Ventricular septal defect	6	2.46
All Defects	74	30.3
WABASH 669		
Atrial septal defect	6	8.97
Ventricular septal defect	6	8.97
All Defects	32	47.83
WARREN 151		
All Defects	5	33.11
WARRICK 1253		
Hypospadias and Epispadias	5	3.99
Obstructive genitourinary defect	5	3.99
All Defects	29	23.14

Total Live Births 174206

WASHINGTON 584		
All Defects	7	11.99
WAYNE 1464		
Obstructive genitourinary defect	5	3.42
Ventricular septal defect	5	3.42
All Defects	38	25.96
WELLS 664		
Atrial septal defect	7	10.54
Ventricular septal defect	6	9.04
All Defects	31	46.69
WHITE 562		
All Defects	13	23.13
WHITLEY 738		
Hypospadias and Epispadias	5	6.78
All Defects	29	39.3
UNKNOWN 19132		
Aortic valve stenosis	5	0.26
Atrial septal defect	59	3.08
Autism	5	0.26
Cleft lip with and without cleft palate	13	0.68
Coarctation of aorta	5	0.26
Congenital hip dislocation	14	0.73
Down syndrome	18	0.94
Endocardial cushion defect	10	0.52
Hydrocephalus without Spina Bifida	5	0.26
Hypospadias and Epispadias	40	2.09
Microcephalus	11	0.57
Obstructive genitourinary defect	28	1.46
Patent ductus arteriosus	20	1.05
Pulmonary valve atresia and stenosis	16	0.84
Pyloric stenosis	31	1.62
Spina bifida without anencephalus	7	0.37
Tetralogy of fallot	5	0.26
Transposition of great arteries	6	0.31
Ventricular septal defect	51	2.67
All Defects	394	20.59

Note—Rates based on fewer than 20 cases are unstable and are not comparable.

^{*} Indicates <5 in number occurred.